

The Effect of Some Ions on the Precipitation
of Uranyl Ferrocyanide From Aqueous Solutions

77753

SOV/75-15-1-15/29

Table 1. Results of amperometric titration of uranyl and copper solutions with ferrocyanide. (a) Taken (millimole); (b) molar ratio; (c) consumption of $K_4Fe(CN)_6$ (millimole; (d) molar ratio; (e) composition of the salt corresponding to the given ratio.

(a)		(b)	(c)	(d)	(e)
UO_2^{2+}	UO_2^{2+}	UO_2^{2+}/UO_2^{2+}		$UO_2^{2+} + UO_2^{2+}$	
				$Fe(CN)_6^{4-}$	
0	0,01	0:1	0,0078	1,29	$K_4(UO_2)_2[Fe(CN)_6]_3$
0,01	0,1	1:10	0,0840	1,27	
0,01	0,05	1:5	0,0465	1,29	
0,01	0,02	1:2	0,0232	1,29	
0,01	0,01	1:1	0,0232	1,29	
0,01	0,01	1:1	0,0145	1,37	$K_4(Cu, UO_2)_2[Fe(CN)_6]_3$
0,01	0,01	1:1	0,0145	1,37	
0,01	0,01	2:1	0,0224	1,34	
0,03	0,01	3:1	0,0290	1,37	
0,05	0,01	5:1	0,0370	1,63	$K_4(Cu, UO_2)_2[Fe(CN)_6]_3$
0,10	0,01	10:1	0,0750	1,47	
0,15	0,01	15:1	0,0960	1,55	
0,05	—	6:0	0,0415	1,45	
0,10	—	10:0	0,0663	1,51	
0,20	—	20:0	0,1280	1,56	$K_4Cu[Fe(CN)_6]_2$
0,30	—	30:0	0,1940	1,55	

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Table 2. Amperometric titration of uranium in the presence of Al, Cr, and Ce. (a) Taken (millimole); (b) molar ratio; (c) consumption; (d) remarks; (e) is not titrated; (f) the same; (g) titrating curves are distinct; (i) titrating curves are not distinct; (j) titrating curve not quite distinct.

(a)				(b)	(c)	(d)
Al ³⁺	Cr ³⁺	Ce ³⁺	UO ₂ ²⁺	Al ³⁺ /UO ₂ ²⁺	K ₄ Fe(CN) ₆ mm	
—	—	—	0,01	0:1	0,80	
0,10	—	—		1:0	(f)	
0,50	—	—		5:0	(f)	
0,01	—	—	0,01	1:1	0,90	
0,05	—	—	0,01	5:1	0,90	
0,10	—	—	0,01	10:1	0,88	(g)
0,30	—	—	0,01	30:1	0,90	
0,50	—	—	0,01	50:1	0,90	
0,80	—	—	0,01	80:1	1,00	(i)
1,00	—	—	0,01	100:1	1,00	

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Table 2. Continued from Card 4/6

(a)				(b)	(c)	(d)
—	0,01	—	—	1:1	(2)	
—	0,05	—	—	5:1	(f)	
—	0,01	—	0,01	1:1	0,85	
—	0,02	—	0,01	2:1	0,80	
—	0,03	—	0,01	3:1	0,80	(f)
—	0,05	—	0,01	5:1	0,80	
—	—	0,005	—	0:0,5	(2)	
—	—	0,010	—	0:1	(f)	
—	—	0,0025	0,01	0,25:1	0,85	
—	—	0,0050	0,01	0,5:1	0,85	(f)
—	—	0,010	0,01	1:1	0,85	
—	—	0,025	0,01	2,5:1	0,90	
—	—	0,050	0,01	5,0:1	0,95	

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The Effect of Some Ions on the Precipitation
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Table 4. Amperometric determination of uranium in
the presence of vanadate (a) Take VO_3^- (millimole);
(b) taken ... (millimole); (c) ratio ... (millimole),
(d) consumption ... for titration (ml); (e) is not
titrated; (f) the same.

(a)	(b) VO_3^-	(c) $\text{VO}_3^- / \text{UO}_2^{++}$	(d) $\text{K}_4\text{Fe}(\text{CN})_6$	(a)	(b) VO_3^-	(c) $\text{VO}_3^- / \text{UO}_2^{++}$	(d) $\text{K}_4\text{Fe}(\text{CN})_6$ ml
—	0,010	0 : 1	0,80	0,03	0,010	8 : 1	0,75
0,02	—	2 : 0	(2)	0,08	0,010	8 : 1	0,80
0,08	—	8 : 0	(2)	0,16	0,010	16 : 1	0,85
0,20	—	20 : 0	» »	0,40	0,015	27 : 1	1,27
0,80	—	80 : 0	» »	0,40	0,15	27 : 1	1,25
0,04	0,010	4 : 1	0,80	0,40	0,010	40 : 1	0,85
0,04	0,010	4 : 1	0,80	0,40	0,010	40 : 1	0,90

Card 6/6

VOLKOVA, G.A.

Coefficients of the accumulation of radioisotopes of some
chemical elements by aquatic insects. Ent. oboz. 42 no.3:
516-519 '63. (MIRA 17:1)

1. Zoologicheskiy institut AN SSSR, Leningrad.

SOCHEVANOV, V.G.; SHMAKOVA, N.V.; MARTYNOVA, L.T.; VOLKOVA, G.A.

Increased sensitivity of the polarographic determination of
uranium in the presence of vanadium and phosphate ions. Zhur.
anal.khim.16 no.3:362-363 My-Je '61. (MIRA 14:6)
(Uranium-Analysis)
(Polarography)

VOLKOVA, G. A.

Call Nr AF 1095038

AUTHOR: Sochevanov, V. G. (Supervisor), Volkova, G. A.,
Volkova, S. P., Martynova, L. T., Palchomova, K. S.,
Popova, T. P., Rozblanskaya, A. A., Rozovskaya, G. V.,
and Shmakova, N. V.

TITLE: Methods of Chemical Analysis of Mineral Ores (Metody
khimicheskogo analiza mineral'nogo syr'ya); 'Polarography
(Polyarografiya). Nr 2.

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo
literatury po geologii i okhrane neдр, Moscow, 1956,
100 pp., 5,000 copies.

ORIG. AGENCY: Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'-
nogo syr'ya (VIMS) Ministerstva geologii i okhrany
neдр SSSR

EDITOR: Sochevanov, V. G.

PURPOSE: This is a manual for use in industrial laboratories of
agencies under the Ministry of Geology and Conservation
of Mineral Resources of the USSR.

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Methods of Chemical Analysis of Mineral Ores (Cont.)

COVERAGE: The author claims that the Ministry of Geology and Conservation of Mineral Resources of the USSR first used polarographic analysis of solid mineral resources in the Laboratory of the Ural Geological Administration and later in the laboratories of the Kazakh Geological Administration. Polarographic laboratory equipment is manufactured by the plant "Geologorazvedka" (recording polarographs $\text{C}\Gamma-8$, $\text{C}\Gamma\text{M}-8$, polarometers $\Pi\text{B}-1$), by the Ural Branch of the Academy of Sciences, USSR (polarometer "Ufan"), by the Academy of Sciences of the Kazakh SSR (polarometer $\Pi\Pi\Gamma-2$), and by the Gintsvetmet (polarometer $\Pi\text{B}-5$). The following scientists took part in the preparation of the instructions under the direction of V. G. Sochevanov: the staff of the Laboratory of Physicochemical Methods of Analysis (VIMS), T. P. Popova (VSEGINGEO) and A. A. Rozbianskaya (Laboratory of Mineralogy and Geochemistry of Rare Earth Metals of the Academy of Sciences, USSR). The methods were recommended for use in industrial laboratories under the Ministry of Geology and Conservation of Mineral Resources of the USSR by the Methodological Section of the

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Methods of Chemical Analysis of Mineral Ores (Cont.)

Scientific Council of the VIMS, namely: G. A. Lanskiy (Chairman), V. I. Titov (Vice-Chairman), V. M. Pensionerova (Secretary), S. K. Rusanov, V. M. Zvenigorodskaya, V. G. Sochevanov, I. V. Sorokin, L. I. Gerkhardt, I. Yu. Sokolov, and I. V. Shmanenkov (Deputy Director of VIMS, Science Division). It was found that the polarographic method for determination of a few per cent or of traces of the constituents frequently excels orthodox methods. The book gives instructions for the polarographic determination of copper, zinc, cadmium, lead, tin, molybdenum, antimony, indium, and thallium in ores. The polarographic method of analysis is discussed in detail, the equipment is described, and lists of reagents are given. Illustrations of electrolytic cells are given on pp. 6, 7, 8, and 9. The institutions where the polarographic methods were developed are mentioned in the Table of Contents and in the description of the individual procedures in the text. (Soviet scientists distinguish two types of apparatus: 1. polarometers or "visual polarographs", and 2. recording polarographs or "polarographs".) An extensive bibliography is included. There are 47 references of which 40 are USSR.

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Methods of Chemical Analysis of Mineral Ores (Cont.)

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PHASE I BOOK EXPLOITATION

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Volkova, Galina Alekseyevna

Planirovaniye dobychi nefti pri podderzhanii plastovogo davleniya
(Organization of Petroleum Production With Maintenance of Bed
Pressure) Moscow, Gostoptekhizdat, 1957. 70 p. (Series: V
pomoshch' ekonomicheskomu obrazovaniyu neftyanikov) 1,500 copies
printed..

Ed.: Nikolayevskiy, N.M., Doctor of Economic Sciences; Executive Ed.:
Dubrovina, N.D.; Tech. Ed.: Polosina, A.S.

PURPOSE: The booklet is intended for engineers and technicians con-
cerned with the planning of crude oil production.

COVERAGE: The booklet deals with the special technological features of
oil production when the formation is subject to artificial action
and when, as a consequence, it becomes necessary to reconsider pro-
duction planning. Rules and methods for the organization of produc-
tion with the use of water injection into the formation are given,

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Organization of Petroleum Production (Cont.) 697

as well as an example of one design of a production plan. The work is based on the experience of oilfields under the Administration of the Tuymazaneft' (Bashkir ASSR) where boundary flooding has been applied for a long time. The author thanks for their help N.I.Dmitriyev, B.Ya. Gombiner and A.V.Kuznetsov. There are 23 Soviet references.

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12-16-58

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LYASS, A.M.; VALISOVSKIY, I.V.; Prinimall uchastiye: YAKOVLEV, V.O.;
EUDANTSEVA, Z.I.; BAGROV, A.A.; VOLKOVA, G.A.

Improving the shakeout of sand mixtures with sodium silicate
solutions. Lit. proizv. no.9:33-36 S '61. (MIRA 14:9)
(Coremaking) (Sand, Foundry)

GETSOVA, A.B.; VOLKOVA, G.A.

Accumulation and elimination of strontium-90 and cesium-137 by the
caddis fly *Halesus interpunctatus* Zett. Dokl. AN SSSR: 139 no.2:
483-484 J1 '61. (MIRA 14:7)

1. Zoologicheskiy institut AN SSSR. Predstavleno akademikom Ye.N.
Pavlovskim.

(Caddis flies) (Strontium--Isotopes) (Cesium--Isotopes)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 220 (USSR) 15-57-4-5662D

AUTHOR: Volkova, G. A.

TITLE: Planning Petroleum Production With Artificially
Maintained Formational Pressures (Planirovaniye
dobychi nefti v usloviyakh razrabotki neftyanykh
mestorozhdeniy s podderzhaniyem plastovykh davleniy)

ABSTRACT: Bibliographic entry on the author's dissertation for
the degree of Candidate of Economic Sciences,
presented to Vses. neftegaz n.-i. in-t (All-Union
Gas and Petroleum Institute), Moscow, 1956

ASSOCIATION: Vses. neftegaz n.-i. in-t (All-Union Gas and
Petroleum Institute)

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Vol 1000, 6-11
SOGHEVANOVA, V.G.; VOLKOVA, G.A.; VOLKOVA, L.P.; MARTYNOVA, L.T.;
PANKHOMOVA, K.S.; POPOVA, T.P.; ROZBIANSKAYA, A.A.;
ROZOVSKAYA, G.V.; SHMAKOVA, N.V.; ANISIMKIN, I.P., redaktor
izdatel'stva; POPOV, N.D., tekhnicheskij redaktor

[Methods of chemical analysis of mineral ores; polarography]
Metody khimicheskogo analiza mineral'nogo syr'ya; poliarografiya.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane
nedr. No. 2. 1956. 99 p. (MLRA 10:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
mineral'nogo syr'ya.
(Polarography)

VOLKOVA, G.A.; PLESHKO, A.M.

Economic efficiency of using electric sinking pumps. Trudy VNII
no.22:126-135 '59. (MIRA 15:4)

(Oil well pumps)

VOLKOVA, G.A.; BALASHOVA, T.V.; BUCHEVA, V.N.; PLESKO, A.M.

Economic efficiency of remote control methods in oil production.
Trudy VNII no.22:136-149 '59. (MIRA 15:4)
(Oil fields--Electronic equipment) (Remote control)

VOLKOVA, G.A.

Economic efficiency of remote control of water-intake wells in
edge water flooding. Trudy VNII no.22:150-153 '59. (MIRA 15:4)
(Oil field flooding) (Remote control)

VOIKOVA, G.I.

SOV/4984

PHASE I BOOK EXPLOITATION

International symposium on macromolecular chemistry. Moscow, 1960.

Mashinirovyy al'pomozh po makromolekulyarnoy khimii SSSR, Moskva, 14-18 iyunya 1960 g.; doliady i avtorferaty. Sektsiya III. (International Symposium on Macromolecular Chemistry Held in Moscow, June 14-18, 1960; Papers and Summaries) Section III. [Moscow, Izd-vo AN SSSR, 1960] 469 p. 55,000 copies printed.

Tech. Ed.: P. S. Kashina.

Sponsoring Agency: The International Union of Pure and Applied Chemistry. Commission on Macromolecular Chemistry.

PURPOSE: This book is intended for chemists interested in polymerization reactions and the synthesis of high molecular compounds.

COVERAGE: This is Section III of a multivolume work containing papers on macromolecular chemistry. The articles in general deal with the kinetics of polymerization reactions, the synthesis of special-purpose polymers, etc. Methods of changing resins, semiconductor materials, etc. Methods of altering polymerization reactions, properties and chemical interactions of high molecular materials, and the effects of various factors on polymerization and the degradation of high molecular compounds. No personalities are mentioned. References given follow the articles.

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Determination of Manganese by a Periodate Method.
(In Russian.) K. N. Ershova and G. N. Volkova.
Factory Laboratory (U.S.S.R.), v. 13, June 1947,
p. 751.
Briefly outlines investigation of above method for
steels containing 0.17-0.65% Mn.

VOIKOVA, G. N.

3.0-221. DETERMINATION OF MANGANESE BY A PERMANGANATE METHOD. E.N. ERSHOVA and G.N. Volkova.
Factory Laboratory (U.S.S.R.) v. 13, June 1947, p. 751. (In Russian).

method for steels containing 0.17 to 0.65% Mn.

immediate source clipping

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Determination of manganese by the periodate method.
K. N. Kravova, and G. N. Volkova. *Zenobitskaya Lab. 13*,
751(1947)(in Russian).—Periodate is obtained by fusing
KI and KIO_4 with excess Na_2O_2 . The product is washed
with H_2O to remove excess alkali. Small amts. of Mn in
steel are detd. after oxidation with KIO_4 . The $HMnO_4$
formed is detd. colorimetrically. George A. Leachin

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Determination of Manganese by the Periodate Method.
 K. N. Yershova and G. N. Volkova, Henry Brucher
 (Altadena, Calif.). Translation No. 2052, 1948, 3
 pages. From *Zavodskaya Laboratoriya* (Factory
 Laboratory), v. 13, no. 6, 1947, p. 751.

Describes favorable experiences with the periodate
 method for manganese in steel, according to the
 procedure described by Lundell, Hoffman, and
 Bright. Includes details of preparation of solu-
 tions, accuracy of results obtained, etc.

ASAC-51A DETALLURGICAL LITERATURE CLASSIFICATION

RESEARCH #2

RESEARCH #1

RESEARCH #3

RESEARCH #4

RESEARCH #5

RESEARCH #6

RESEARCH #7

RESEARCH #8

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RESEARCH #100

COMMON ELEMENTS										PROCESSES AND PROPERTIES INDEX									
MATERIALS INDEX										CLASSIFICATION									
10-221. DETERMINATION OF MANGANESE BY A PERIODATE METHOD.										5									
K. N. Erekhova and G. M. Volkova. <u>Factory Laboratory (U.S.S.R.)</u> ,																			
v. 13, June 1947, p. 751. (In Russian.)																			
Method for steels containing 0.17 to 0.65% Mn.																			
ASME-SLA METALLURGICAL LITERATURE CLASSIFICATION										CLASSIFICATION									
SHEET ONE OF TWO										SHEET ONE OF TWO									

ZHEDEK, M.S.; KHMELYK, G.G.; MAKSAKOVA, V.A.; SHANYGINA, M.I.;
VOLKOVA, G.M.

Stabilization of creamery butter by antioxidants. Report
No.2: Effect of antioxidants on the keeping quality of butter
manufactured by the continuous line method during prolonged
storage. Izv. vys. ucheb. zav.; pishch. tekhn. no.6:59-63
'63. (MIRA 17:3)

1. Khar'kovskiy zooveterinarnyy institut, kafedra khimii i
kafedra tekhnologii zhivotnovodchaskikh produktov.

SOV/50-58-7-5/20

Daily Course and the Possible Sums of the Summary Radiation

$$F_2(0) = \frac{S_0 \cos \theta_0}{1 + \xi_{10} \sec \theta_0} \quad (3)$$

It was necessary to determine the value of the parameter ξ_{10} for comparing the results obtained by observation with the theoretical calculations. A theoretical solution of this problem is, however, very difficult. If the mentioned formulae are assumed to be semi-empirical, the simpler formula (3) yields the best results. The comparisons carried out showed that a rather close connection exists between the parameter ξ_{10} and the transparency coefficient of the atmosphere. The daily sum of the summary radiation may be calculated according to the formulae of Gal'perin if only one measurement of the flux of the summary radiation at $m = m$ and, in the case of cloudless sky which is necessary for the calculation of the parameter ξ_{10} , is made. If, however, the dependence of this parameter on the transparency conditions of the atmosphere was already previously determined, this single observation is not necessary (in this case the transparency coefficient has of course to be known). From the data in Table 2

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/ Daily Course and the Possible Sums of the Summary Radiation SOV/ 50-58-7-5/20

we may conclude that the calculation errors of the possible sums of the summary radiation are quite admissible, when formula (3) is employed. The use of the formulae (1) and (2) is less favorable, as was to be expected. There are 2 tables and 4 references, **all of which are Soviet.**

1. Radiation--Theory 2. Mathematics

Card 3/3

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Substitution reactions in the bipyridine complexes of divalent
nickel and cobalt. Zhur.neorg.khim. 4 no.2:330-336 7 '58.
(Bipyridine) (Nickel compounds) (Cobalt compounds) (MIRA 12:3)

VOLKOVA, G.Ye.

Organization of work in medical schools for subprofessional
personnel. Med. sestra 22 no.6: 9-13 Je'63. (MIRA 16:9)
(MEDICINE—STUDY AND TEACHING)

TENTSOVA, A.I.; VOLKOVA, G.Ye.

Raise the level of training of sub professional pharmaceutical
personnel. Apt.delo 8 no.4:27-30 J1-Ag '59. (MIRA 12:10)
(PHARMACY--STUDY AND TEACHING)

20-119-2-43/60

AUTHOR: Volkova, I. B.

TITLE: Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan (Petrograficheskiy sostav i usloviya obrazovaniya ugley nizhnemezozoyskikh mestorozhdeniy Kazakhstana)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2, pp 343 - 346 (USSR)

ABSTRACT: During the years 1956 - 1957 the author investigated the above mentioned coals in southeast Kazakhstan (Kenderlyk) as well as in the basins of the river Ilek (Kurashashay and Sol'-Ilek) and in the Orsk-basin. The characteristics of the coal - bearing deposits of these districts are given in table 1. In the present article different types of coal formation are determined in connection with petrographic particularities of the coals and with the general conditions of sedimentation. The investigated coals are humus-coals according to their structure, but their degree of carbonization permits to classify them as soft coal. The initial substance is manifold and on the whole

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Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

consists of remains of higher plants of the classes: Coniferae, Cycadeae, Gingoaceae, Pteridophytae and Equisetaceae. The upper-triassic coals from Kurashasay mainly consist of stalk-and solid parts of the plants. In the main seam mixo-humolites are predominant which consists of approximately equal parts of gelidified, fusainized and lipid components. The microstructure of the coal generally is attritus matrix. Mineral admixtures are present in great quantity. In Kenderlyk lipid-gelites are dominant. They mainly consist of leaf-tissue with a considerable amount of stalk parts. Apart from residuals of higher plants in Kurashay as well as in Kenderlyk algae occur. The Kenderlyk coals under the microscope show all bedded structures: horizontal, flat-oblique and oblique-wave structures. The mineral is high, mainly due to clay substance. The middle-jurassic coals (Orsk-basin) mainly consist of ligneous and stalk tissue. The structure is fragmentary, more rarely attrited. The main coal types usually have a low

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• Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan.

ash content. The coals from Sol'-Ilek are similar to those from Orsk. The difference of the former lies in a higher content of ash and in heavy pyritization. The coal seams here usually are of a complicated structure: they consist of several layers of different types and varieties and are separated from coal-containing and grey arenaceous-loamy rocks by interstratifications. The mentioned differences between coals of different age can be caused by modifications of the vegetation from the upper-triassic to the middle-triassic period. Of determinative importance however are here the conditions under which the accumulation, decomposition and reconversion of the parent substance of the coals have taken place. There is a regular dependence of the conditions of coal formation on the general circumstances of the sedimentation of the coal beds under question. Either intermountain or pre-mountain-valleys (in Rhät-Leias) or wide basin-shaped gorges with very softly sloping borders (in the middle-jurassic formation) served

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Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

as catchment areas of the lower-mesozoic coal-containing sediments. Their tectonic regime was different (Reference 7) which had an influence on the formation of the early peat bogs. The Kenderlyk-coals have developed in a crevassed terrain and in a quickly mutable, highly irrigated environment. Despite the existing flow the organic substance was mainly decomposed under anaerobic conditions and developed much coal, which corresponds to a fast depression of the sedimentation area. In the Orsk-depression which formed a large fault pit with calm tectonic regime, the coal accumulation took place in a slightly structured plane, in forest bogs and marshes. Here the conditions were at the limit between aerobic and anaerobic ones. Even after small modifications of the physico-geographical circumstances this led towards development of two different transformation processes of plant material: *fusaination gelifica*. The speed of depression here was extremely small. Most of

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Petrographic Composition and Formation Conditions of Coal in Lower Mesozoic Coal Beds of Kazakhstan

the coals here ought to have developed in those places, where plants have grown. In the Kurashasay-suite, the conditions of coal formation of which are similar to those of Kenderlyk in many regards, the plant material was transported before the embedding and crushed on that occasion. The coals of Sol'-Ilek were formed under conditions similar to those of the Orsk-basin. Thus 2 types of coal formation can be distinguished here: 1) Kenderlyk-type, 2) Orsk-and Sol'-Ilek-type (table 2). There are 2 tables, and 8 references, 7 of which are Soviet.

ASSOCIATION: Laboratoriya geologii uglya Akademii nauk SSSR (Laboratory for Coal Geology of the AS, USSR)
PRESENTED: December 28, 1957, by D. V. Nalivkin, Member, Academy of Sciences, USSR
SUBMITTED: December 24, 1957

Card 5/5

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[Use of transistor and magnetic elements in electronic digital computers] Primenenie tranzistornykh i magnitnykh elementov v tsifrovyykh vychislitel'nykh mashinakh; sbornik statei. Pod red. V.K.Lyubchenko i S.M.Nikulina. Moskva, Izd-vo "Sovetskoe radio," 1960. 228 p. (MIRA 14:10)

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Yu.A., red.; KAUSOV, S.F., red.; KRASILOV, A.V., red.; KULIKOVSKIY,
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(Transistors)

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sluzhivaniia. Izd. 2. Moskva, Sovetskoe radio, 1965. 254 p.
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NOSOV, Yuriy Romanovich; VOLKOVA, I.M., red.

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(MIRA 18:12)

Volkova, I. M.

USSR.

✓ Synthesis of phenylaminoethylalkoxysilanes. K. A. Audrianov and I. M. Volkova. *Doklady Akad. Nauk S.S.S.R.* 98, 67-70 (1954). Heating 72 g. $(\text{MeO})_2\text{SiMeCH}_2\text{Cl}$ (b. 141-4°, n_D^{20} 1.4170) with 140 g. PhNH_2 at 130-40° gave after filtration of PhNH_2Cl , 48% $(\text{RO})_2\text{SiMeCH}_2\text{NHPh}$. Ph (I) (R = Me), b. 130-41°, n_D^{20} 1.5116, d_4^{20} 1.063. Other I prepd. (R, % yield, b.p., n_D^{20} , d_4^{20} given): Et, 42.5, b. 162-3°, 1.4976, 1.003; Me_2CH , 43, b. 160-2°, 1.4580, 0.9708; Me_2CHCH_2 , 38, b. 180-2°, 1.4840, 0.9530; iso-Pr , 29, b. 162-4°, 1.4533, 0.9604. With Et_3NHPH there was similarly obtained 37% $(\text{RO})_2\text{SiMeCH}_2\text{NEtPh}$ (II); (R = Me), b. 151-4°, n_D^{20} 1.5131, d_4^{20} 1.024. Other II prepd. are (R, % yield, b.p., n_D^{20} , d_4^{20} given): Et, 37.5, b. 130-6°, 1.4948, 0.9920; Me_2CH , 40, b. 150-6°, 1.4900, 0.9723; Me_2CHCH_2 , 23, b. 185-90°, 1.4690, 0.9530; iso-Pr , 23, b. 167-8°, 1.4602, 0.9482. G. M. Kosolapoff.

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(Semiconductors) (Transistors)

FEDOTOV, Ya.A., red.; VOLKOVA, I.M., red.; BELYAYEVA, V.V.,
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IA.A.Fedotova. Moskva, Sovetskoe radio. No.9. 1963. 269 p.
(MIRA 16:5)

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red.; BELYAYEVA, V.V., tekhn. red.

[Physical principles of semiconductor devices] Osnovy fiziki
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(Semiconductors) (Transistors)

USSR/Medicine - Acetylcholine

Jul/Aug 51

"The Significance of Acetylcholine in Establishing Central Braking," I. N. Volkova, Chair of Physiol, Kazan' State Med Inst

"Fiziol Zhur SSSR" Vol XXXVII, No 4, pp 422-430

Perfusate from veins of frog spine during braking spine's reflex activity loses braking properties on addn of cholinesterase (extract from dog spleen); i.e., braking properties of perfusate depend on presence of acetylcholine. Disturbance of phospholipide metabolism produced by extirpation of pancreas leads to disturbance of

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USSR/Medicine - Acetylcholine
(Contd)

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acetylcholine synthesis, which is reflected in elimination of braking in spine. Atropine also eliminates braking of reflexes. Acetylcholine and eserine [physiostigmine] exert a braking effect on the reflex action of frog spine when added in high concns to soln being perfused. When present in low concns in this soln, they stimulate excitation of muscle. This shows that acetylcholine in low concns strengthens peripheral stimulus, but in high concns is a necessary factor for bringing about central braking.

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VOLKOVA, I. N.

VOIKOVA, I.N.

Role of acetylcholine in the development of central inhibition.
Fiziol. zhur. 40 no.6:691-696 N-D '54. (MLRA 8:2)

1. Kafedra fiziologii Kazanskogo Gosudarstvennogo meditsinskogo
instituta.

(SPINAL CORD, effect of drugs on,
acetylcholine, on form. of central inhib. in frogs)

(ACETYLCHOLINE, effects,
on spinal cord, role in form. of central inhib. in frogs)

VOLKOVA, I.N.:

VOLKOVA, I.N.: "On the role of acetylcholine in the mechanism of developing inhibition in the central nervous system". Kazan', 1955. Kazan' State Medical Inst. (Dissertations for the Degree of Candidate of Medical Sciences.)

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Effect of partial extirpation of the pancreas on the development of reciprocal inhibition in warm-blooded animals [with summary in English]. Biul.eksp.biol. i med. 44 no.11:8-14 N'57 (MIRA 11:11)

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(NERVOUS SYSTEM, physiology
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animals (Rus))

(PANCREAS, effect of excision,
partial on reciprocal inhib. in animals (Rus))